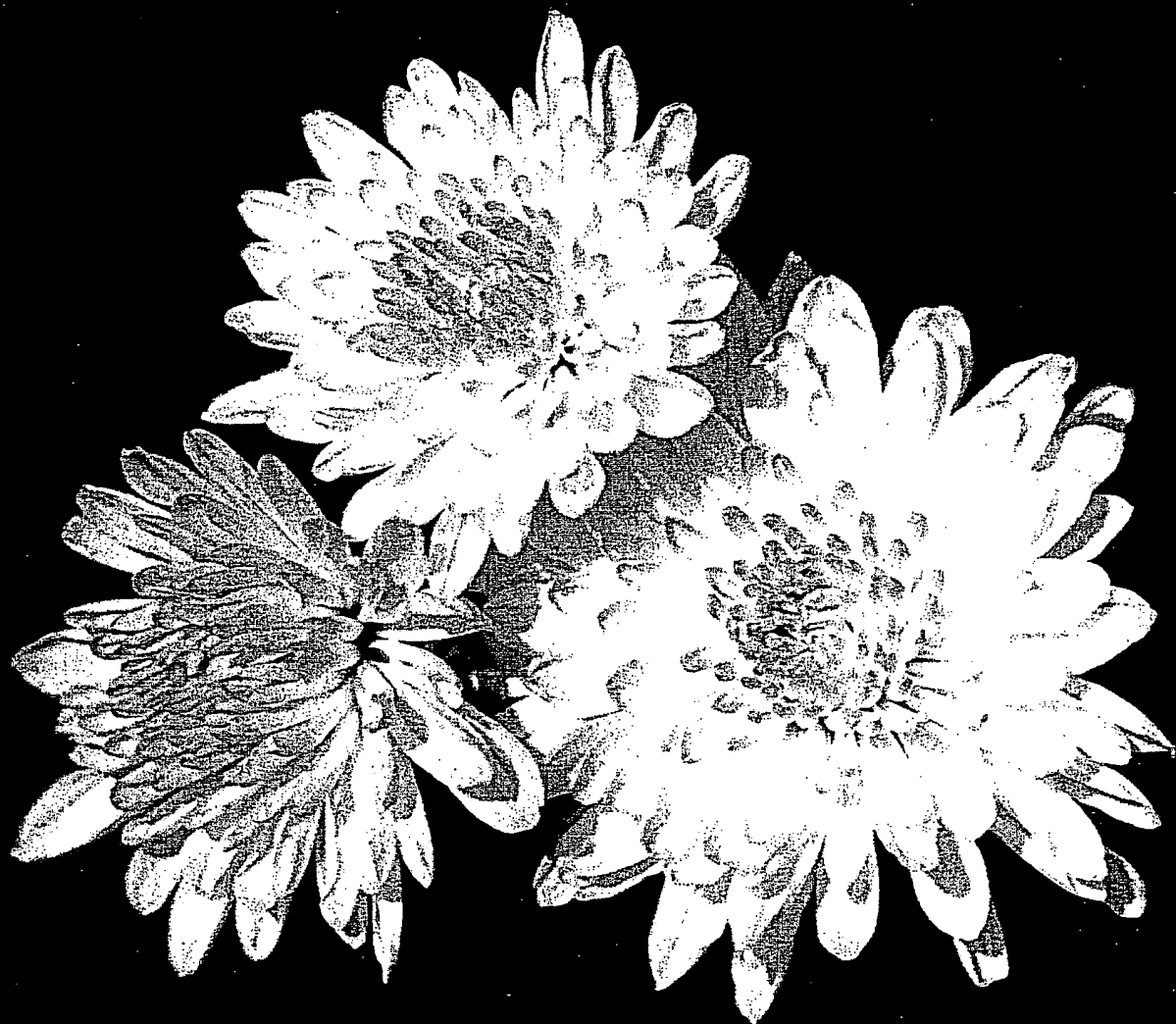
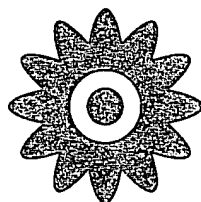
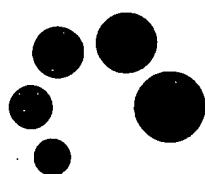


Showmakers



Gardenmum Catalog 2002



BEST AVAILABLE COPY

RoyalVanZanten
surprising nature

Dear Growers,

We are proud to introduce you to our company,

On July 1st, 2000, Van Zanten Cuttings B.V. (Hillegom, the Netherlands), started a "New" venture in Nipomo, CA. Nipomo was selected because of its unique climate; Moderate temperatures all year round, more than 320 days of sunshine and exceptional water quality. Royal Van Zanten LLC, produces and sells Chrysanthemum cuttings for pots, cuts, and gardens.

In cooperation with 2 world famous Chrysanthemum breeders; the Chrysanthemum Breeders Association (CBA) in Rijsenhout, the Netherlands and Cleangro in Chichester, United Kingdom; Royal Van Zanten will be introducing an exclusive and extensive "State of the Art" product line.

With the needs of the grower in mind, we have developed a complete range of grower varieties. Our garden mum breeding program selects from 35,000 to 45,000 seedlings annually, to bring the very best colors, flower forms and habits to the market. We are doing extensive testing of these selections in North America and Canada.

Our **Showmakers** are divided in three groups, with different characteristics. This will make it easy for you to pick the varieties that will suit your purpose. In this catalog you will find a ton of introductions that will bring new excitement to the market.

New pot mum varieties for any size pot are here today, that are easy to grow, free branching and do not need any disbudding. Ask for our pot mum catalog if you are interested.

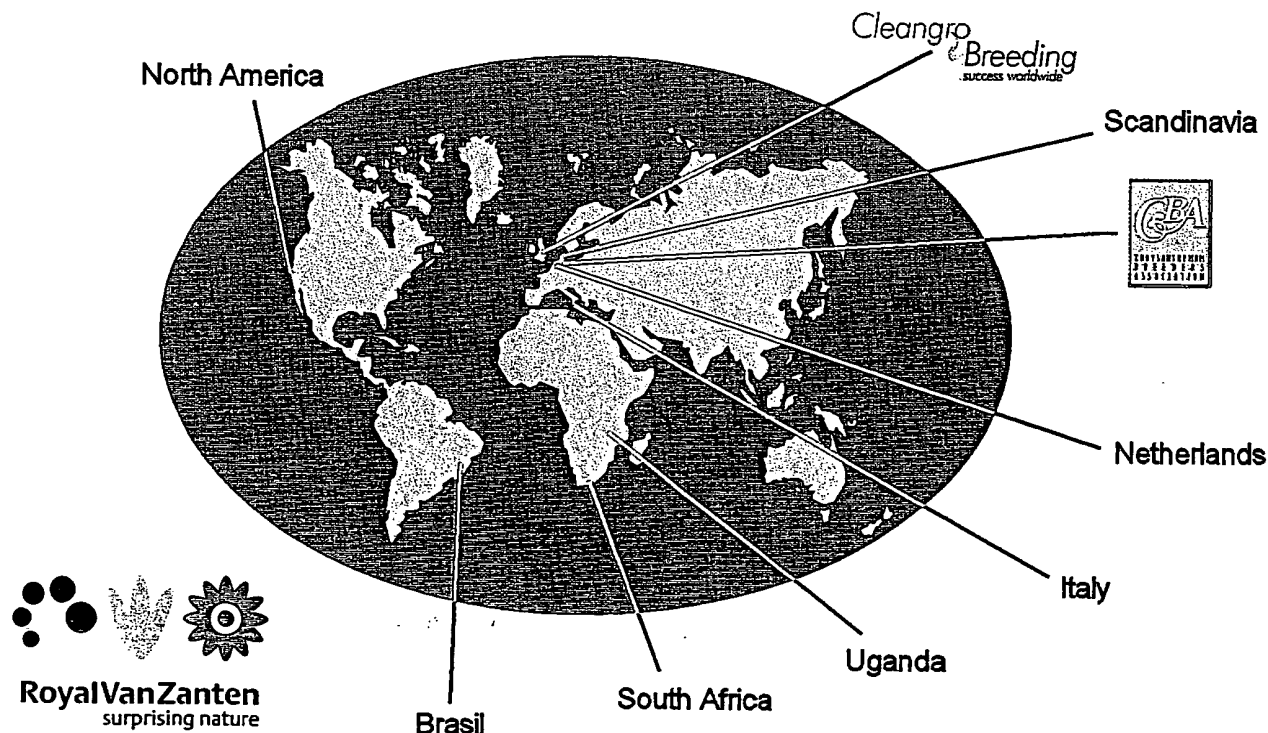
Royal Van Zanten is world reknown for its excellence in cut mums. Our Reagan family of daisies and new novelties will fill your greenhouses with the colors and forms that sell.

Royal Van Zanten, headquartered in Hillegom, the Netherlands, is active worldwide in the breeding, propagation and sale of plant material for floriculture; Including alstroemeria, freesias, lilies, tulips, and specialty items. In the last 2 decades, Royal Van Zanten has become the largest supplier of Chrysanthemum cuttings in the world.

We look forward to our future together !

Jolanda Tas
Managing Director

Peter Hesse
Marketing Manager



The different faces of Royal Van Zanten

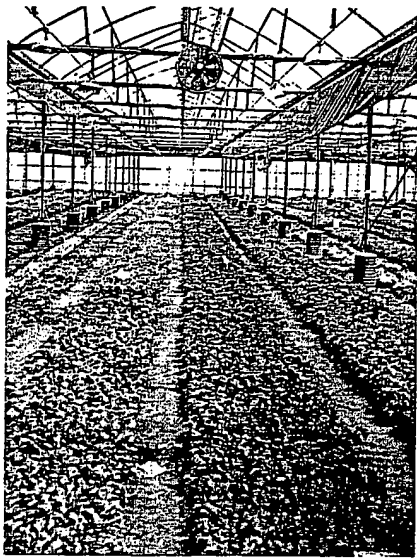
Management



Jolanda Tas
Managing Director

Peter Hesse
Marketing Manager

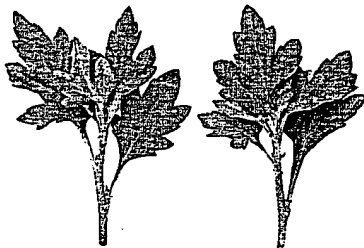
Greenhouse



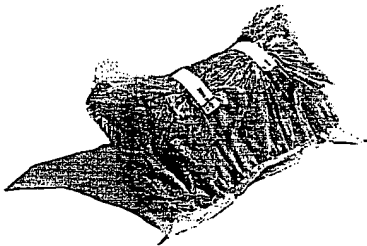
Office



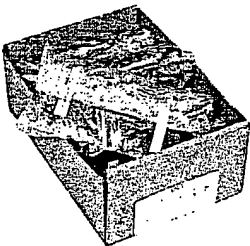
Maria Gutierrez Office Manager
Isabel Zavala Orders/Shipping
Janneth Garibay Customer Service



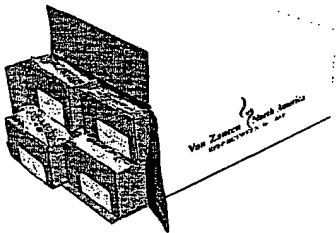
Cuttings



Packaging cuttings



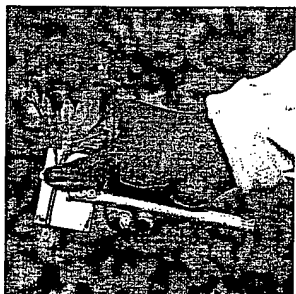
Insert boxes



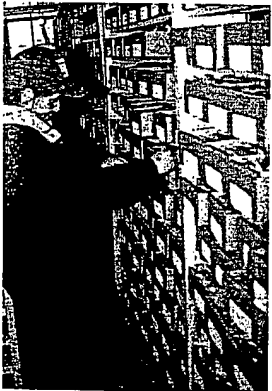
Shipping box (4000 cuttings)



Picking



Grading cuttings while picking by using knives



oldstore



Shipping



Peter,
Have we
introduced our
new *Showmaker*
lines yet ?

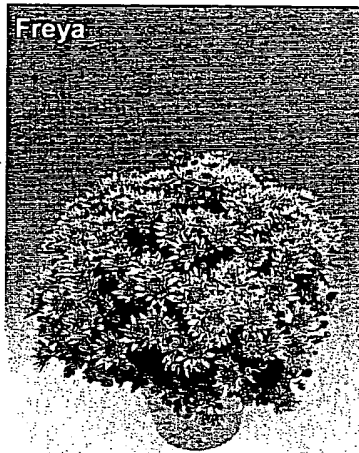
Yikes, Jolanda!
Let me tell them
about our *Grandiflora*,
Multiflora and *Multimini*
right away !!!

★ Showmakers™ ★

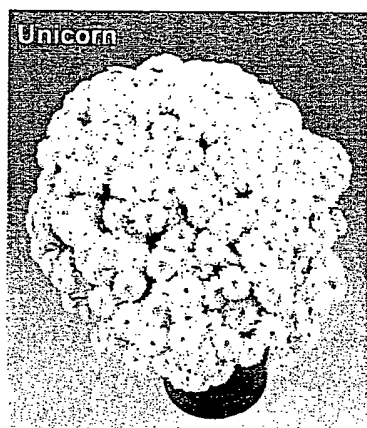


★ Grandiflora

Showmaker Grandifloras are the classic garden mums we all love and our customers prefer. Large flowers in decorative, daisy and novel forms in all colors. Bred for brilliance and durability for increased sales and customer satisfaction. They may be grown in packs, pots, or nursery containers and will create an excellent and exciting garden mum season.



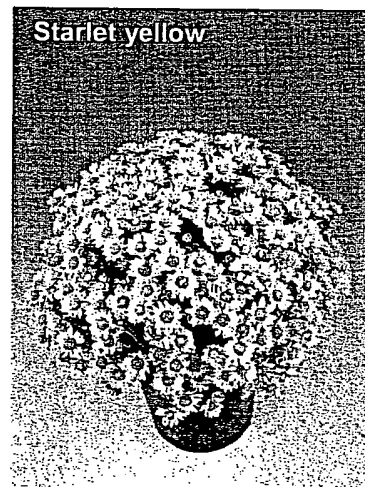
Multiflora

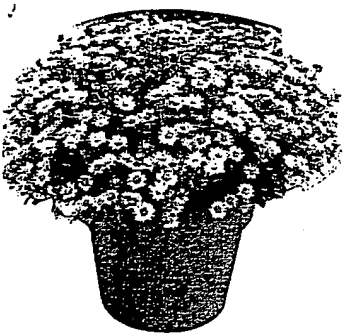


Our Showmaker Multifloras have intermediate size flowers and are available in many flower forms and colors. They are extremely floriferous. Finished plants display thousands of flowers in excellent round habits. They are very weather resistant with strong, but flexible stems that resist breakage during shipping and handling. Great for all size containers.

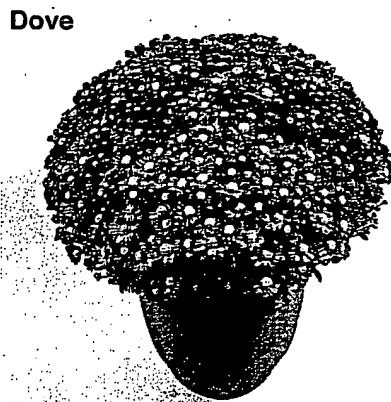
Multimini

Our newest introduction class is the Multimini. The plants grow and produce a multitude of mini flowers in incredible ball shaped displays. They may be grown in a multiple size of pots for multiple uses, for multiple sales, and multiple profits. Weather resistant with flexible stems for improved shipping and handling. Super for small pots, pans, and bowls. Grow these new varieties to create excitement and improve your variety mix.

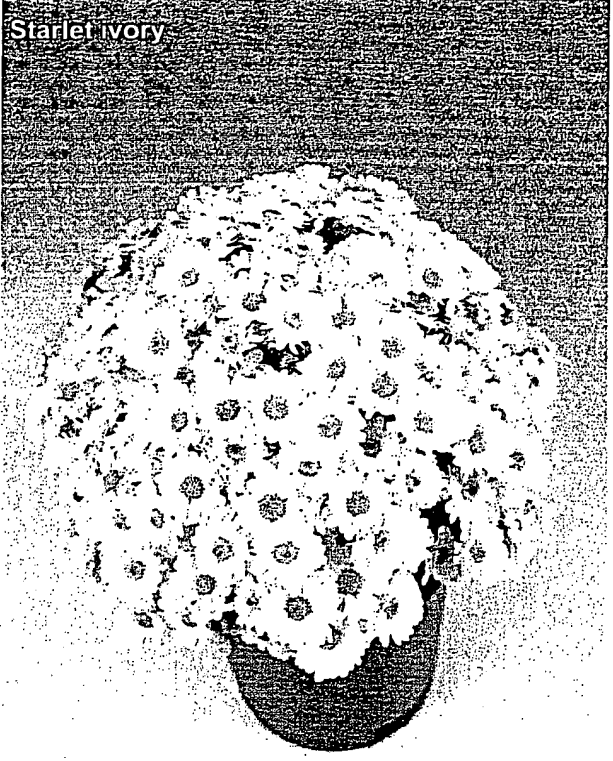




Starlet pink



Dove



Starlet ivory

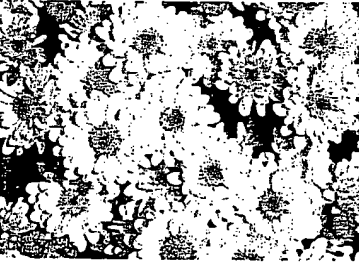


Starlet coral

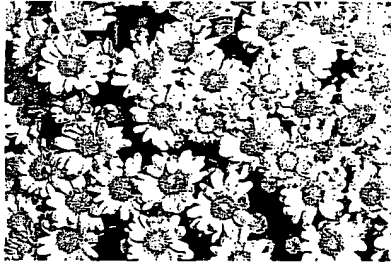


Juno

Also excellent as springmums !



Starlet ivory



Starlet yellow



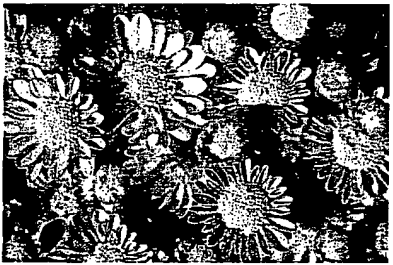
Starlet coral



Starlet pink



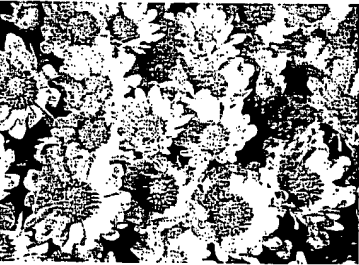
Phoebe



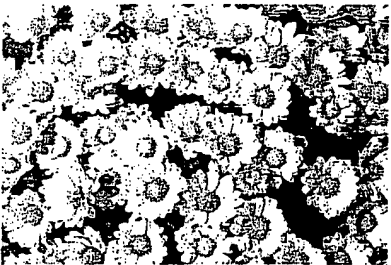
Starlet bronze



Starlet blush



Starlet white



Juno



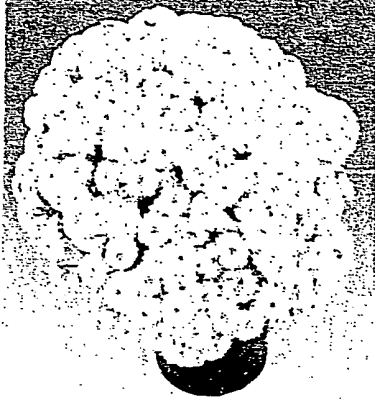
Dove bronze



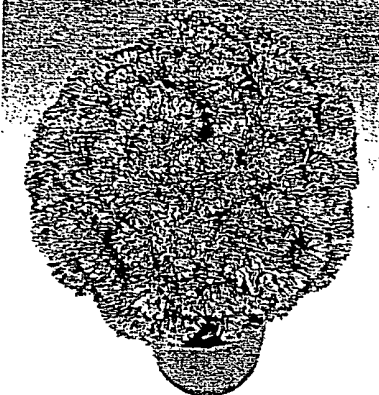
Dove

Showmakers™
Multimini

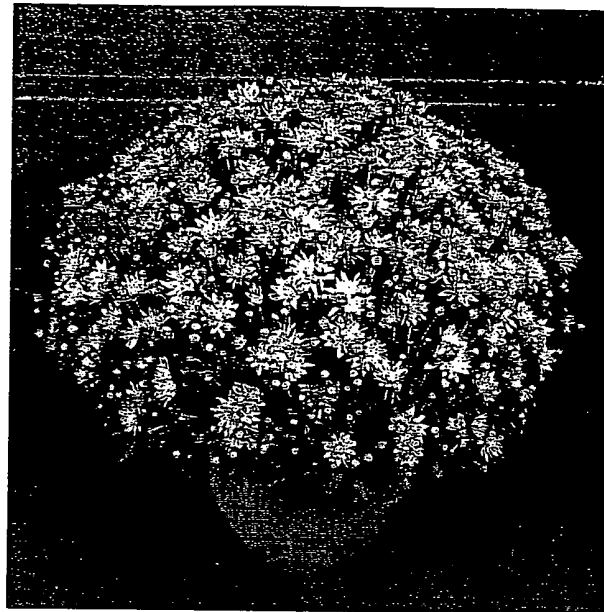
Unicorn



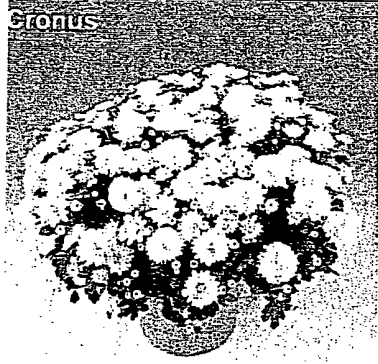
Amara



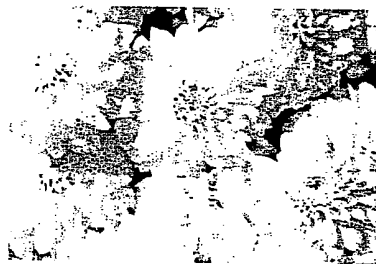
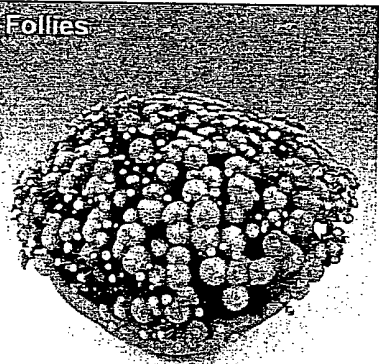
Goldfinch



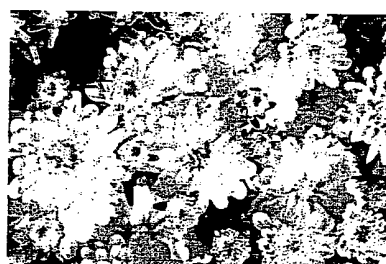
Cronus



Follies



Unicorn



Nighthawk lemon



Medusa



Nighthawk



Titan



Goldcrest



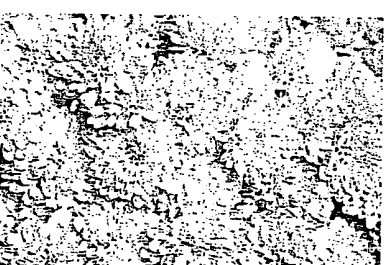
Allegro



Mars



Medea



Cronus



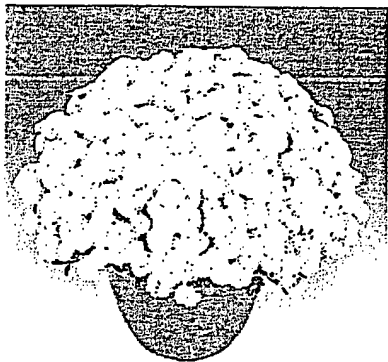
Amara



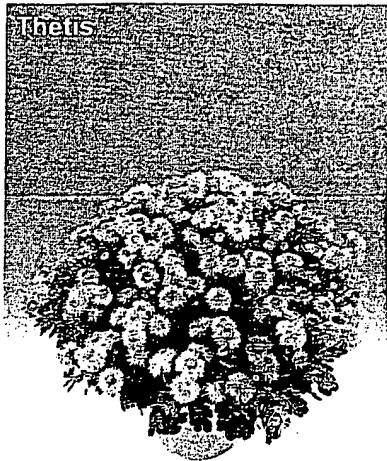
Manakin

★ Showmakers™ ★
 ★
 ★
 ★
Multiflora

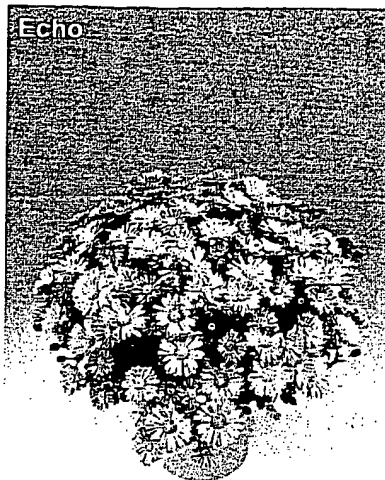
Odysseus



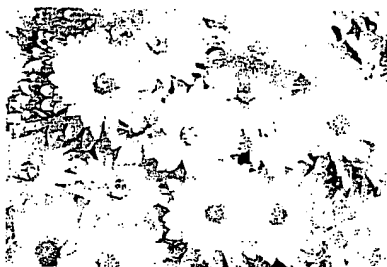
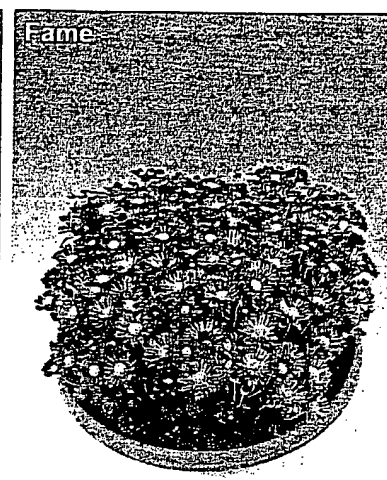
Thetis



Echo



Fame



Jason



Odysseus



Firecracker



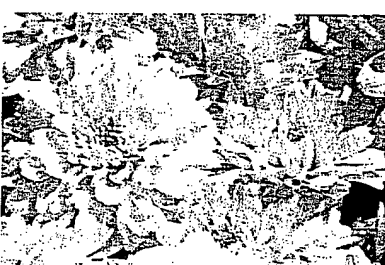
Helios



Odin



Ossa



Castor



Echo



Cockatoo



Minerva



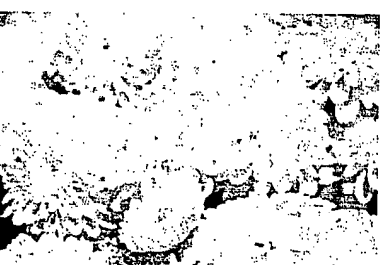
Xanthus



Feniks



Aurora white



Egret



Thetis



Luna

ShowmakersTM

Grandiflora

Grandiflora

name	color	flower	vigor	response	RT	patent	remark
Aurora White	White	Daisy	M	E	7	USPPP	Spoontype daisy
Blackatoo	White	Daisy	M	E	7	USPPP	Midsized daisy
Amazon	White	Daisy	T	E	7	USPPP	Very big white duplex daisy
Aladin	White	Daisy	M	VE	6	USPPP	Midsized daisy
Amor Spider White	White	Decorative	M	M	7	USPPP	True white spider decorative
Amor White	White	Decorative	M	M	7	USPPP	Part of Amor family
Antirrhinum	White	Decorative	M	VE	6	USPPP	Midsized decorative
Odysseus	White	Decorative	M	M	8	USPP 11,637	Lots of smaller decorative flowers
Alissa	White	Decorative	M	VE	6	USPPP	Nice decorative with cream eye
Alfred	Cream	Decorative	M	E	7	USPP 10,214	Cream/white, lots of flowers
Albino	Cream	Decorative	M	L	8	USPP 10,452	Cream/coral, lots of flowers
Alfred	Yellow	Daisy	M	E	7	-	Midsized daisy
Alfred	Yellow	Daisy	M	VE	6	USPP 11,625	Attractive yellow daisy
Amor Yellow/White	Yellow	Decorative	M	M	7	USPPP	Special 2-tone flower
Alfred	Yellow	Decorative	T	E	7	USPPP	Great flower
Alfred	Yellow	Decorative	T	VE	6	USPPP	2-tone with attractive orange eye
Alfred	Bronze	Daisy	M	M	7	USPPP	Tan daisy with dark red buds
Alfred	Bronze	Daisy	T	M	7	USPPP	Red/bronze daisy
Alfred	Bronze	Daisy	S	VE	6	USPPP	Midsized daisy
Alfred	Bronze	Decorative	M	L	8	USPPP	Golden yellow/bronze
Alfred	Bronze	Decorative	M	E	7	USPPP	2-tone bronze, light with dark orange center
Alfred	Bronze	Decorative	T	L	8	USPP 1,497	Nice orange/bronze midsized decorative
Alfred	Bronze	Decorative	M	M	7	USPPP	Golden yellow/bronze
Alfred	Bronze	Decorative	M	E	7	USPP 11,298	Light bronze
Alfred	Orange	Decorative	M	VE	6	USPPP	Light orange, excellent color retention
Alfred	Orange	Decorative	T	E	7	USPPP	Pumpkin orange
Alfred	Salmon	Decorative	M	E	7	USPPP	Nice big decorative
Alfred	Salmon	Decorative	M	M	8	USPP 11,301	Bronze/Salmon small decorative
Alfred	Salmon	Decorative	M	M	8	USPP 11,659	Coral/salmon
Alfred	Coral	Decorative	M	E	7	USPPP	Attractive color, part of Amor family
Aurora Pink	Pink	Daisy	M	E	7	USPPP	Spoontype daisy
Alfred	Pink	Daisy	M	E	7	-	Dark pink daisy
Alfred	Pink	Daisy	M	E	7	USPPP	Peach/pink, striking color
Alfred	Pink	Decorative	M	M	7	USPPP	Part of Amor family
Alfred	Pink	Decorative	M	M	7	USPPP	Part of Amor family
Alfred	Pink	Decorative	T	M	7	USPPP	2-tone pink with white center
Alfred	Pink	Decorative	T	L	8	USPPP	Semi decorative
Alfred	Pink	Decorative	M	L	8	USPP 10,195	Bright pink
Alfred	Purple	Anemone	T	M	7	USPPP	Spoon anemone
Aurora Purple	Purple	Daisy	M	E	7	USPPP	Spoontype daisy
Alfred	Purple	Decorative	M	VE	6	USPPP	Dark purple
Alfred	Purple	Decorative	M	VE	6	USPPP	Light purple
Alfred	Purple	Decorative	M	E	7	USPPP	Good flower, good habit
Alfred	Purple	Decorative	M	E	7	USPP 11,717	Midsized decorative
Alfred	Purple	Decorative	M	L	8	USPP 11,254	Deep purple
Alfred	Purple	Decorative	S	L	8	USPP 11,586	Deep purple
Alfred	Purple	Decorative	M	E	7	USPPP	Light purple
Alfred	Purple	Decorative	M	M	7	USPPP	Very deep striking purple

Listing—Showmakers

Grandiflora

name	color	flower	vigor	response	RT	patent	remark
Commedienne	Red	Anemone	T	L	8	USPPP	Bright red with striking yellow center
Nightingale	Red	Button	T	M	8	USPPP	Upright plantshape
Cyclops	Red	Daisy	M	M	7	USPPP	Duplex daisy
Jenny Wren	Red	Decorative	M	E	7	USPP 10,213	Nice red decorative, upright plant
Peacock VZ Royal	Red	Decorative	M	M	7	USPPP	Nice deep velvet red
Pluto	Red	Decorative	T	E	7	USPPP	Upright plantshape
Red Start	Red	Decorative	M	L	8	USPP 10,217	Bronze/red small decorative
Jenny Wren Crimson	Maroon	Decorative	M	M	7	USPPP	Deep color, good color retention
Mithra	Maroon	Decorative	M	M	7	USPPP	Very attractive color, good color retention

Multiflora

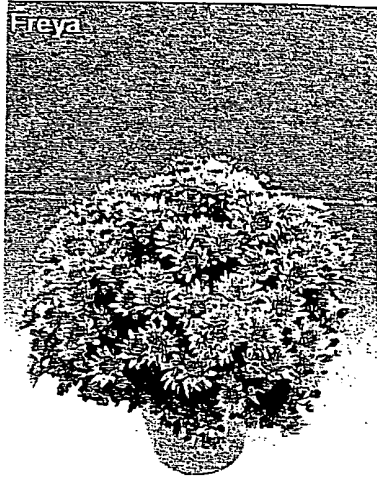
name	color	flower	vigor	response	RT	patent	remark
Unicorn	White	Button	M	M	7	USPPP	2-tone button with cream center
Titan	White	Daisy	M	E	7	USPPP	Nice white daisy with pink buds
Nighthawk Lemon	Yellow	Decorative	M	E	7	USPPP	Lemon/yellow
Cronus	Yellow	Decorative	M	M	7	USPPP	Bright sunny decorative
Gold Crest	Yellow	Decorative	M	E	7	USPP 11,606	Excellent breaking
Gold Finch	Yellow	Decorative	M	M	8	USPP 10,463	Midsized decorative
Mars	Orange	Daisy	M	L	8	USPPP	2-tone duplex daisy
Medea	Salmon	Daisy	S	VE	6	USPPP	Lots of flowers
Follies	Pink	Button	M	L	8	USPPP	Nice 2-tone with green center, tons of flowers
Nighthawk	Pink	Decorative	M	E	7	-	Small decorative
Medusa	Pink	Decorative	M	M	7	USPPP	Beautiful dark eye
Allegro	Purple	Button	M	L	8	USPPP	Tons of flowers
Amata	Purple	Decorative	M	M	7	USPPP	Green center, special flower
Manakin	Red	Decorative	M	M	8	USPP 11,521	Deep red

Multimini

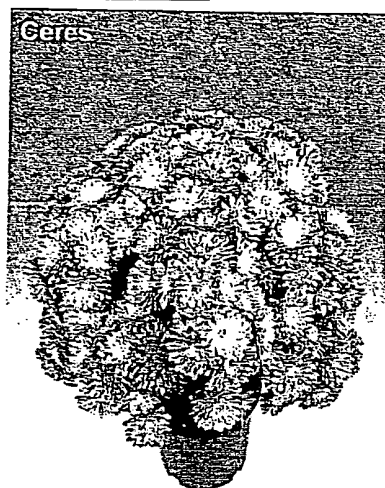
name	color	flower	vigor	response	RT	patent	remark
Starlet Ivory	White	Daisy	S	E	7	USPPP	Pure white with dark eye, no pollen
Starlet White	White	Daisy	M	M	7	USPPP	Flower starts cream turns white
Juno	Yellow	Daisy	M	M	7	USPPP	Bright sunny daisy
Phoebe	Yellow	Daisy	M	M	8	USPPP	Bright yellow little flower
Starlet Yellow	Yellow	Daisy	S	E	7	USPPP	Tons of small daisy flowers
Starlet Bronze	Bronze	Anemone	M	M	7	USPPP	Red buds with bronze daisies
Dove Bronze	Bronze	Daisy	S	VE	6	USPPP	Small bronze daisy, lots of flowers. Excellent for 5" pots
Starlet Coral	Coral	Daisy	S	M	7	USPPP	Light coral, cute daisy
Dove	Pink	Daisy	M	VE	6	USPPP	Small pink daisy, lots of flowers
Starlet Blush	Pink	Daisy	M	M	7	USPPP	Pink with bright yellow center, surrounded by a white ring
Starlet Pink	Pink	Daisy	S	M	7	USPPP	Light pink daisy with dark pink buds

Vigor
Response
RT

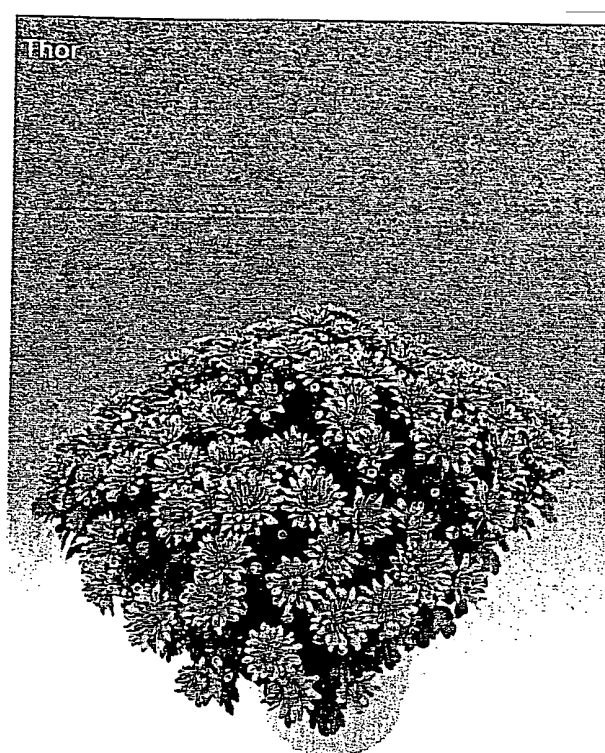
S-Small, M-Medium, T-Tall
VE-Very Early, E-Early, M-Medium, L-Late
Response Time



Freya



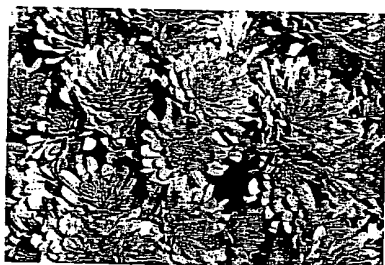
Ceres



Thor



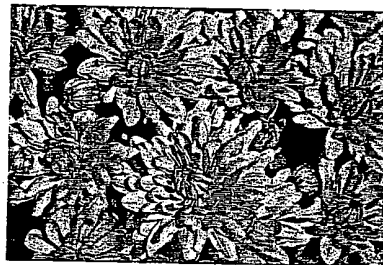
Sandpiper



Argos



Iduna



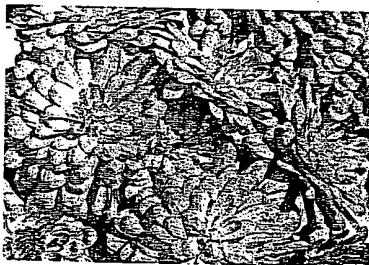
Thor



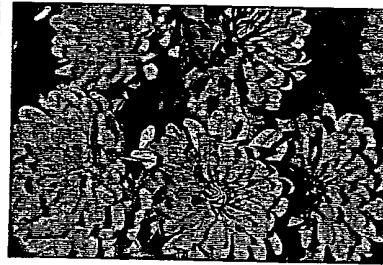
Peach Light



Ceres



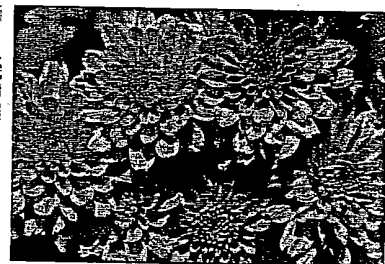
Roadrunner



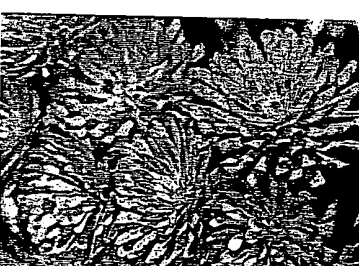
Lovebird



Rio dark



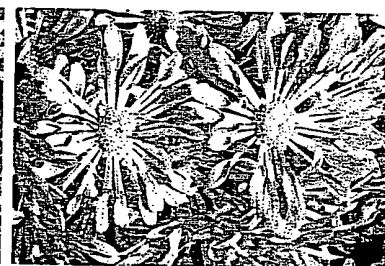
Skylark



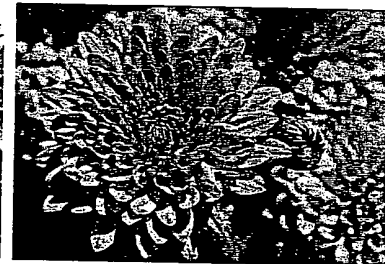
Kingfisher



Freya



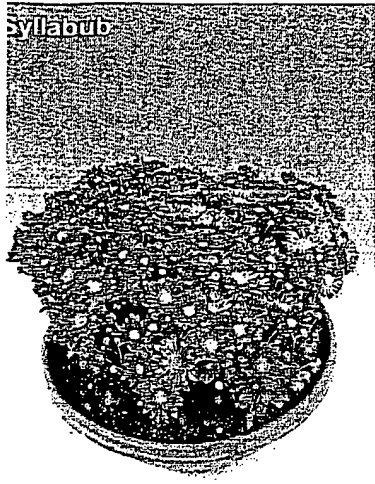
Aurora pink



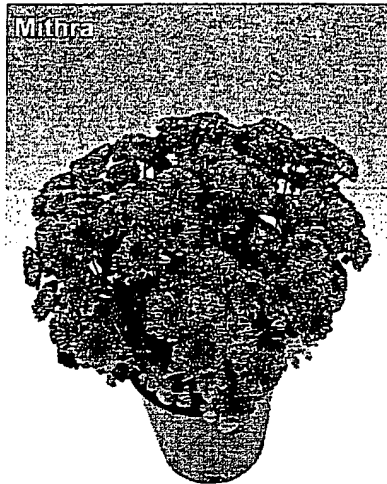
Oberon

ShowmakersTM ☆

Grandiflora



Syllabub

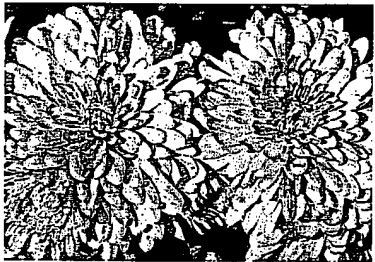


Mithra



Cyclops

Jenny Wren



Cupido



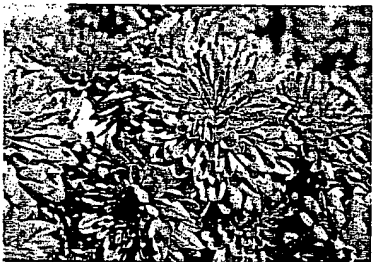
Delphi



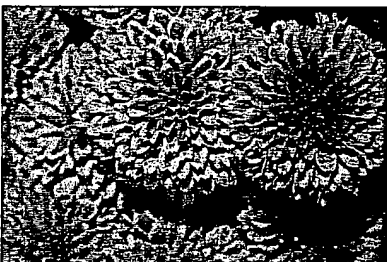
Lorikeet



Peacock VZ Royal



Sirena



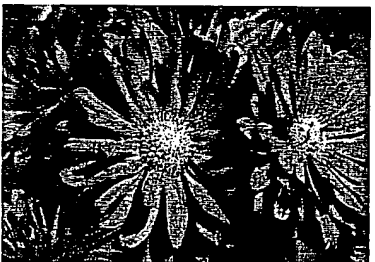
Adonis



Venus



Pluto



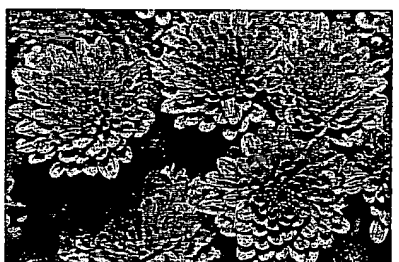
Gothic



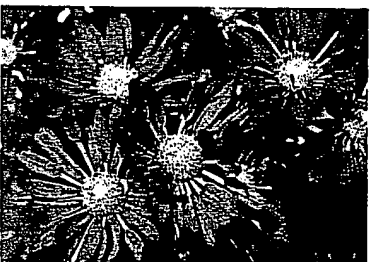
Hermes



Comedienne



Red Start



Aurora purple



Ibis



Nightingale



Jenny Wren crimson

Showmakers TM
 Grandiflora

When grown well, garden mums make such a beautiful crop. To be successful you should always make a plan and you must ask yourself the following questions.

How many garden mums will I be able to sell, in what size container, and most importantly at what profitable price? Please note, how many can I sell profitably is a much different question from how many can I produce?

Once you decide how many you will be able to sell, you must ask yourself, do I have enough space to produce this quantity of only high quality plants? Quality is so important to sell through. Producing too many plants too close together is one of the best ways to produce poor quality. Poor quality will eventually lead to a decrease in sales and profitability.

What color percentages and what flower forms will sell best for the season I am growing for, spring, summer, and fall?

What varieties work best and what do my notes tell me from last year's production? There is no excuse for not taking notes each year.

Once these important questions have been answered you might want to speculate on a 5 to 20 percent extra increase every year to keep your business growing.

CONTAINERS

There are many size containers suitable for growing garden mums made from plastic, fiber, and wood.

- Cell-packs, 4" - 4.5" pots
- 5", 6", 6.5" azalea and specialty square pots
- 1 gallon, 2 gallon, 3 gallon nursery containers
- 8" x 5" mum pans
- 12" - 14" color bowls
- 6", 8" and 12" hanging baskets
- Novelty containers such as bushel baskets and wooden boxes.

SOIL

There are many professional soil mixes available that will work for growing garden mums. If you mix your own soil, we suggest that you use a professional soil scientist to help make sure you get the mixture correct. They will analyze your water and match your soil chemistry to it. A well-drained mix is essential, but too light a mix may dry out too easily and not provide enough anchor and weight to support the crop, especially when the plants are being displayed for sale. The starting pH in a soil based mix should be 6.0 to 6.5 and in a soil less mix slightly lower at 5.5 to 6.0.

ROOTING AND PLANTING

Starting the crop correctly makes all the difference. If you are going to buy unrooted cuttings stick them as soon as possible. We suggest that you use a 72, 105, or 128 tray. A suggested beginning mist cycle is 16 seconds on every 16 minutes.



Flower testing at Royal Van Zanten in Nipomo

As the crop begins to root in about 7 days, gradually back off the amount of mist. Never let the cuttings dry out. Apply a 1200 ppm application of B-9 at about 7 days. Feed through the mist system at 100 ppm of 20-10-20 and irrigate the plants with a feed of 100 ppm starting after 1 week. Use mum lighting in this propagation phase. Four to six hours of 10 foot-candles from 10 p.m. to 4 a.m. will help prevent premature budding. Plant your rooted cuttings as soon as they are well rooted or as soon as you receive them. Do not hold cuttings in trays and allow them to become over rooted. Be prepared. Have all the pots filled and slightly moist. It is important that you plant the cuttings deep leaving approximately 1-1.5" above the soil. Irrigate immediately after planting with feed and never allow the crop to dry out in the first 2 weeks. Syringe the plants during the heat of the day. This is very important to help prevent premature budding.

WHEN TO PLANT AND TIMING

Garden mums are short day plants and initiate flower buds in response to an interaction of day length and temperature. This critical initiation time varies between different climatic locations, but for a specific location is relatively the same from year to year. The time to flower from this critical initiation period for a particular variety is relatively fixed. Traditional Natural Season garden mums for fall are planted from May into early July. The time of year to plant depends on a number of factors: projected sales dates, the size of the pot, number of cuttings per pot, and local climatic conditions. For large finished plants with one cutting per pot, plant earlier. If you want a large plant with less crop time, plant more cuttings per pot a few weeks later. Smaller plants in smaller pots may be planted even later. There is a critical planting week for your local area that will be the last planting week after which planting will not make sense. It is essential that you keep good notes. For example if your 4.5" are consistently too big, first make sure you have selected the proper variety, and then decide if you selected the best planting week. Consider planting one week later next year.

if your 1 cutting 8" pans are consistently too small, again first make sure you have selected the proper variety, and then consider planting them one week earlier next year. After carefully evaluating your crop each year you will be able to fine-tune the planting time to produce consistent plant sizes that will flower in relatively the same time period each year.

SHORT DAY TREATMENT USING BLACK CLOTH

Growing garden mums using mum lighting and black cloth is not that difficult and allows the grower to program the crop to flower any week of the year all year round (AYR). The most important thing is to make sure the plant is grown in long days to the proper size for the size pot it is planted in, before you put it into the short day period. If you are growing in cell-packs and small pots, you will not need many long days. If you are trying to grow larger pots, then the plant will need more long days before black clothing.

It is better to black cloth the crop until the buds are well-formed and almost ready to open. However, some growers only have enough black cloth area to cover part of their crop and will give a 4 week short day treatment to initiate buds and then move the crop back into the natural long days. Careful variety selection is necessary using this technique. Some cultivars need more than 4 weeks of short days for them to initiate, grow, and develop evenly.

Pulling a lightweight black plastic across the crop when growing outside may be done to bring the plants in earlier. Some growers use supports and nylon wire slightly above the crop or simply lay the plastic right on the plants and hold it down along the edges with pipes, soil, or stones. This may not be that easy to manage if you get heavy rain or wind. We suggest that growing earlier varieties suited for your climate might be a better option.



Trials at Sant greenhouses, Canada

SPACING

Proper spacing is an absolute key to excellent quality. The proper spacing depends on the pot size and the desired finished product. Too tight a spacing promotes weak, stretched, poor quality plants. A grower should strive for excellent quality with the proper spacing.

- Cell-packs - No spacing
- 4"-4.5" pots may be spaced on 6 to 9 inch centers
- 5", 6", and 6.5" pots may be spaced on 10 to 15 inch centers
- 8", 1 gallon, 2 gallon containers may be spaced on 16 to 24 inch centers.

Grandiflora
Multiflora
Multimini

IRRIGATION AND FEEDING

Garden mums may be grown using overhead irrigation, sub irrigation, and drip methods. We feel that sub irrigation and drip work the best. Keeping the foliage dry helps to prevent spotting of the foliage and foliar diseases from getting out of control. Constant liquid feeding works very well using a 20-10-20 type of fertilizer at a rate of 200-350 ppm. Combination tank mix feeds of potassium nitrate, calcium nitrate, and ammonium nitrate may be used and growers should consult with their local soil and horticultural specialists for recipes. Slow release fertilizers in combination with liquid feeds may also be used, but are less predictable.

PINCHING

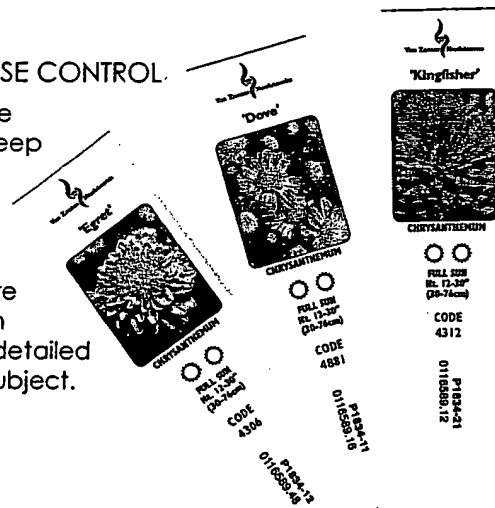
There is a current trend to not pinch garden mums. It is true that many modern varieties do not need any pinching at all. They will pinch themselves by producing little premature buds that will not develop, but cause branching to occur. Not all varieties are the same however. A good grower should inspect his crop to see if any of the cultivars need pinching. One pinch after 14 to 21 days of growth or no pinch is sufficient with today's modern varieties.

GROWTH REGULATORS

B-Nine for height control has been used for decades, is the preferred chemical, and does improve the quality of a mum crop. Use a rate of 1200 to 2500 ppm as needed, starting when the plants are growing well and the side shoots are 3-4 inches long. However, for most outside garden mum growing it is not necessary. Selection of varieties, proper planting date, and pinching are good alternatives to consider before relying too heavily on expensive applications of B-Nine. Bonzi is a very effective chemical and takes more skill to apply correctly. A 2 ppm drench when the plants are at the desired finish height will stop the growth. Growers must be extremely careful when using Bonzi and we do not recommend it. Florel has been used to promote branching and prevent premature budding and it is very effective. Florel does delay flowering. A rate of 300-500 ppm may be used. Different varieties respond differently and a grower must be careful and have experience with Florel application. New varieties do not need Florel applications if a grower waters and feeds properly.

INSECT AND DISEASE CONTROL

Preventive sprays are recommended to keep pesky little problems from developing into crop losses. The OFA "Tips on Managing Floriculture Crop Problems" is an excellent source of detailed information on this subject.



Tags are available for our Showmaker-varieties.

Name	Color	Type	Series	Page	Name	Color	Type	Series	Page
Very Early					Medium <i>continued</i>				
Odin	White	Daisy	Grandiflora	7	Unicorn	White	Button	Multiflora	6
Minerva	White	Decorative	Grandiflora	7	Odysseus	White	Decorative	Grandiflora	7
Ossa	White	Decorative	Grandiflora	7	Starlet white	White	Daisy	Multimini	5
Xanthus	Yellow	Daisy	Grandiflora	7	Juno	Yellow	Daisy	Multimini	5
Thetis	Yellow	Decorative	Grandiflora	7	Phoebe	Yellow	Daisy	Multimini	5
Dove bronze	Bronze	Daisy	Multimini	5	Amor yellow/white	Yellow	Decorative	Grandiflora	15
Helios	Bronze	Daisy	Grandiflora	7	Cronus	Yellow	Decorative	Multiflora	6
Argos	Orange	Decorative	Grandiflora	10	Gold Finch	Yellow	Decorative	Multiflora	6
Medea	Salmon	Daisy	Multiflora	6	Starlet bronze	Bronze	Anemone	Multimini	5
Dove	Pink	Daisy	Multimini	5	Echo	Bronze	Daisy	Grandiflora	7
Adonis	Purple	Decorative	Grandiflora	11	Fame	Bronze	Daisy	Grandiflora	7
Cupido	Purple	Decorative	Grandiflora	11	Luna	Bronze	Decorative	Grandiflora	7
Early					Lovebird	Salmon	Decorative	Grandiflora	10
Aurora white	White	Daisy	Grandiflora	7	Oberon	Salmon	Decorative	Grandiflora	10
Cockatoo	White	Daisy	Grandiflora	7	Starlet coral	Coral	Daisy	Multimini	5
Jason	White	Daisy	Grandiflora	7	Amor dark pink	Pink	Decorative	Grandiflora	15
Starlet ivory	White	Daisy	Multimini	5	Amor pink	Pink	Decorative	Grandiflora	15
Titan	White	Daisy	Multiflora	6	Ceres	Pink	Decorative	Grandiflora	10
Egret	Cream	Decorative	Grandiflora	7	Medusa	Pink	Decorative	Multiflora	6
Firecracker	Yellow	Daisy	Grandiflora	7	Starlet blush	Pink	Daisy	Multimini	5
Starlet yellow	Yellow	Daisy	Multimini	5	Starlet pink	Pink	Daisy	Multimini	5
Castor	Yellow	Decorative	Grandiflora	7	Syllabub	Purple	Anemone	Grandiflora	11
Gold Crest	Yellow	Decorative	Multiflora	6	Amata	Purple	Decorative	Multiflora	6
Nighthawk lemon	Yellow	Decorative	Multiflora	6	Venus	Purple	Decorative	Grandiflora	11
Iduna	Bronze	Decorative	Grandiflora	10	Jenny Wren crimson	Maroon	Decorative	Grandiflora	11
Roadrunner	Bronze	Decorative	Grandiflora	10	Mithra	Maroon	Decorative	Grandiflora	11
Thor	Orange	Decorative	Grandiflora	10	Nightingale	Red	Button	Grandiflora	11
Freya	Salmon	Decorative	Grandiflora	10	Cyclops	Red	Daisy	Grandiflora	11
Amor coral	Coral	Decorative	Grandiflora	15	Manakin	Red	Decorative	Multiflora	6
Aurora pink	Pink	Daisy	Grandiflora	15	Peacock VZ Royal	Red	Decorative	Grandiflora	11
Gothic	Pink	Daisy	Grandiflora	11	Late				
Peach Light	Pink	Daisy	Grandiflora	10	Sandpiper	Cream	Decorative	Grandiflora	10
Nighthawk	Pink	Decorative	Multiflora	6	Feniks	Bronze	Decorative	Grandiflora	7
Aurora purple	Purple	Daisy	Grandiflora	11	Kingfisher	Bronze	Decorative	Grandiflora	10
Delphi	Purple	Decorative	Grandiflora	11	Mars	Orange	Daisy	Multiflora	6
Termes	Purple	Decorative	Grandiflora	11	Follies	Pink	Button	Multiflora	6
Sirena	Purple	Decorative	Grandiflora	11	Rio Dark	Pink	Decorative	Grandiflora	10
Jenny Wren	Red	Decorative	Grandiflora	11	Skylark	Pink	Decorative	Grandiflora	10
Pluto	Red	Decorative	Grandiflora	11	Allegro	Purple	Button	Multiflora	6
Medium					Ibis	Purple	Decorative	Grandiflora	11
Amor Spider white	White	Decorative	Grandiflora	15	Lorikeet	Purple	Decorative	Grandiflora	11
Amor white	White	Decorative	Grandiflora	15	Commedienne	Red	Anemone	Grandiflora	11
					Red Start	Red	Decorative	Grandiflora	11

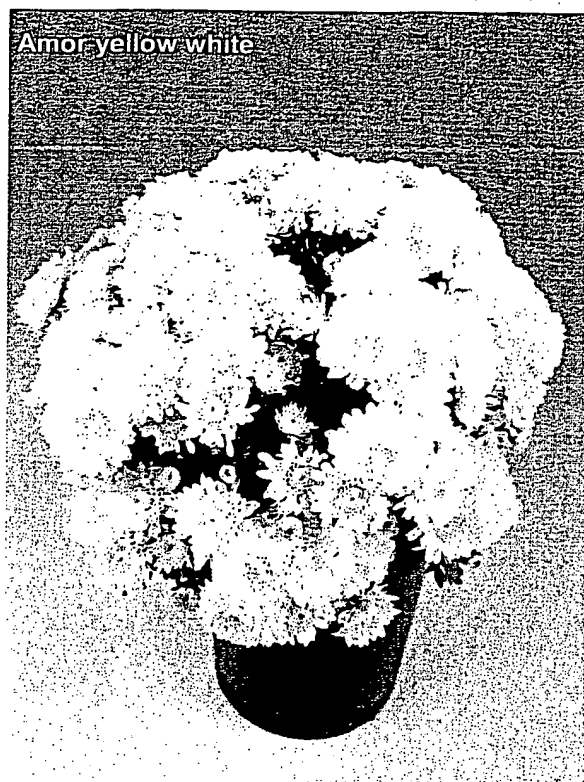
Response Listing—Showmakers



Amor pink

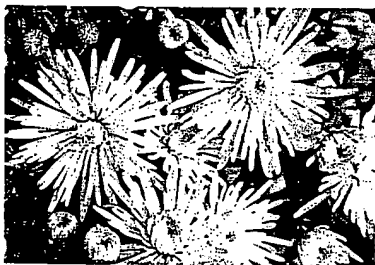


Amor spider white



Amor yellow white

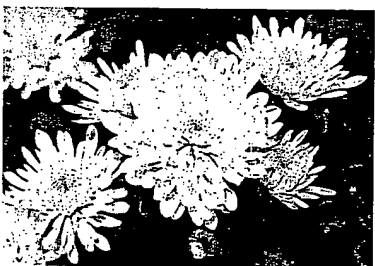
Don't forget, the Amor -
family also make fantastic
Spring mums !



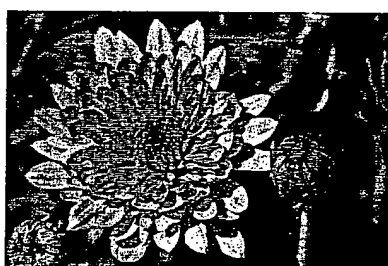
Amor spider white



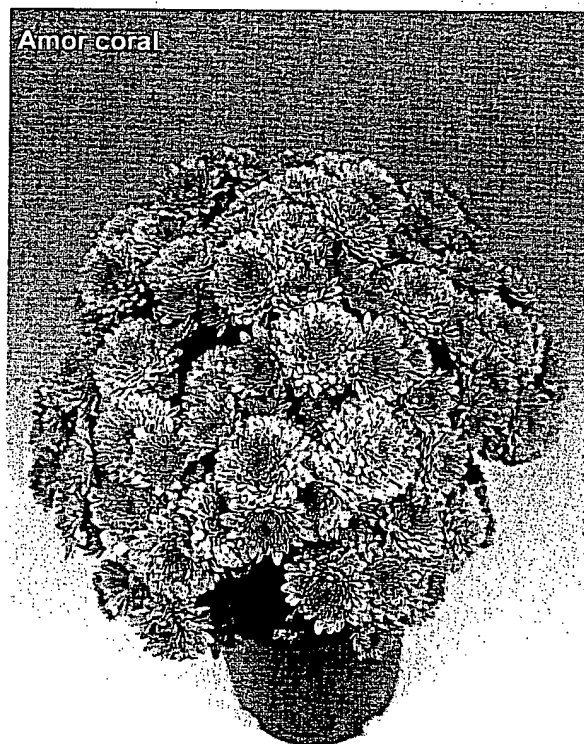
Amor white



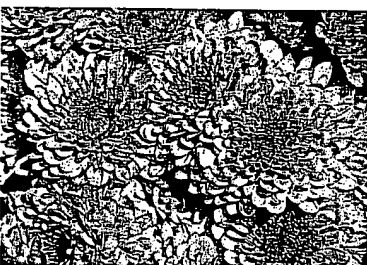
Amor yellow white



Amor coral



Amor coral



Amor pink



Amor dark pink

AMOR is a splendid family of attractive
decoratives. A true family, that guarantees
uniformity and easy growing.

Showmakers™
Grandiflora

Amor-family

Royal Van Zanten cuttings are sold exclusively by Ball Seed in the USA and Ball Superior in Canada.
Please contact the Ball salesman in your area for information or orders :

Ball Superior

CANADA

Max Epp Jr.
Eastern Ontario
Gay Gordon
Atlantic provinces
Régent Houle
Quebec
Paul Philp
Niagara region of Ontario
James Robertson
Lower mainland of British Columbia;
Vancouver Island
Allan van Staalduinen
Southwestern and central Ontario
John van Beveren
Northwestern Ontario; Manitoba;
Saskatchewan
Geoffrey S. Wood
Alberta; Eastern British Columbia

Pacific

John Alexander
Central California
Brian Harned
California-Los Angeles, Orange,
Riverside and San Bernardino
Counties; Hawaii
Chuck Joachim
Western and Central Oregon;
California-Del Norte, Humboldt and
Trinity Counties
Peter Kruger
Central and Northern California,
except Del Norte, Humboldt and
Trinity Counties, incl. all of the San
Francisco Bay area; Western Nevada
Miriam Levy
California-San Diego and Imperial
Counties
Jerry Pachuiilo
Western Washington
Ed Rose
California - Santa Barbara and
Ventura Counties; other selected
accounts
David R. Sontag
Eastern Washington; Eastern Oregon;
Idaho; Montana; Western South
Dakota; Northern Wyoming; Alaska

Northeast

Andrew Aiken
Maine, New Hampshire, Vermont,
Essex county, Massachusetts
Andy Brown
Central Pennsylvania; Maryland
panhandle; Eastern West Virginia
Chris Corwin
Northern West Virginia; Western
Pennsylvania; Washington County,
Ohio
John A. Cotton
Northern and Central New Jersey

Phone: 519-942-4743
Fax: 519-942-0163

Phone: 902-447-2211
Fax: 902-447-2251

Phone: 450-491-1911
Fax: 450-491-3937

Phone: 905-892-1264
Fax: 905-892-0760

Phone: 604-792-0477
Fax: 604-792-0887

Phone: 905-331-5556
Fax: 905-331-5445

Phone: 204-757-9936
Fax: 204-757-9212

Phone: 403-995-0392
Fax: 403-995-0394

Phone: 805-481-7983
Fax: 805-474-9197

Phone: 909-695-4936
Fax: 909-695-3986

Phone: 503-640-5039
Fax: 503-640-9318

Phone: 916-369-8595
Fax: 916-369-8599

Phone: 760-929-0681
Fax: 760-929-0684

Phone: 360-856-4108
Fax: 360-856-5258

Phone: 805-929-3100
Fax: 805-929-2063

Phone: 509-465-2730
Fax: 509-465-1621

Phone: 508-528-5024
Fax: 508-528-0886

Phone: 717-540-9709
Fax: 717-540-9756

Phone: 724-693-0932
Fax: 724-693-0935

Phone: 973-838-2424
Fax: 973-492-5405

Jim Gibson

Fairfield County, Connecticut; New
York-Rockland and Westchester
Counties; Metropolitan New York
City, Long Island

Peter J. Gilmore

Maryland, except the western
panhandle; Delaware;
Washington D.C.

John Jensen

Upstate New York, except Rockland
and Westchester Counties

Bob Luzzal

Eastern Massachusetts, except
Essex County

Mitchell Rand

Rhode Island; Connecticut, except
Fairfield County; Western
Massachusetts

Rich Scall

Eastern Pennsylvania; Southern New
Jersey

Great Lakes

Jason Adams

Indiana

Chris Bernacchi

Central and Southwestern Ohio

Brandon Fahrmeier

Eastern Ohio except Washington
County

Troy Johnson

Northwestern Ohio

Michelle Meyer

Southwestern Michigan

Jack Stokes

Southeastern Michigan - Battle Creek
area to Metropolitan Detroit

John Veigel

Eastern Kentucky; Southern West
Virginia; Ohio-Lawrence, Gallia,
Meigs and Athens Counties

David Zelaya

Northwestern section of Michigan's
Lower Peninsula

Midwest

Greg Bogart

Eastern Wisconsin; Michigan's upper
peninsula

Coy Butner

Northwestern Missouri; Northern and
Western Iowa; Eastern Nebraska

Bob Cashman

South Central Minnesota

Mike DeRee

Kansas; West Central Missouri;
Central Nebraska

Phone: 631-209-9449
Fax: 631-209-9494

Phone: 410-374-3291
Fax: 410-374-3529

Phone: 716-586-7084
Fax: 716-586-7071

Phone: 978-486-8216
Fax: 978-952-2788

Phone: 203-453-5567
Fax: 203-453-5398

Phone: 215-628-4327
Fax: 215-628-0708

Phone: 317-818-0900
Fax: 317-818-1988

Phone: 937-644-5050
Fax: 937-644-4040

Phone: 330-654-7623
Fax: 330-654-7629

Phone: 419-822-5915
Fax: 419-822-9534

Phone: 616-384-0126
Fax: 616-384-0127

Phone: 616-341-9377
Fax: 616-341-9436

Phone: 859-223-5285
Fax: 859-223-0044

Phone: 616-891-2477
Fax: 616-891-2479

Phone: 262-673-0266
Fax: 262-673-0160

Phone: 816-662-2129
Fax: 816-662-2219

Phone: 952-423-6730
Fax: 952-423-9184

Phone: 316-522-0995
Fax: 316-522-3080

Russell K. Emerson

Northwestern Wisconsin; Northern
and Western Minnesota; North
Dakota; Eastern South Dakota

Matt Freeman

Northern Illinois except
Chicagoland area

Derek Schrof

Eastern Missouri; Southern Illinois

Clyde Seery

Southwestern Wisconsin;
Southeastern Iowa

Laura Thomas-Stachon

Chicagoland area of Illinois

Southeast

Cynthia Griffith

Western North Carolina; Central and
Northeastern South Carolina

Nathan D. King

Georgia; Northwestern and
Southeastern South Carolina

John McBryde

Alabama; Florida panhandle

Al Newsom

Eastern North Carolina

Dick Rose

East Central and Southern Florida

Peter Scherzer

Virginia

Karen Sopak

West Central and Northern Florida

Southwest

Steve Bartfield

East Central Texas, incl. Dallas/Fort
Worth metroplex

Ron Brum

Colorado; Northern New Mexico;
Western Nebraska; Wyoming, except
for western and northern Counties

Maria Bollinger

Tennessee; Western Kentucky

Carrie Chang

Oklahoma; Northeastern Texas

Donnie Clayton

Mississippi; Southern Louisiana

George A. Freas

Southern New Mexico;
Western Texas

Michael Henzler

Southern Texas

Don Humphries

Utah; Arizona; far western Counties
of Wyoming; Eastern Nevada

Phone: 701-297-5911
Fax: 701-232-3866

Phone: 815-787-2597
Fax: 815-787-2598

Phone: 636-300-1209
Fax: 636-447-0155

Phone: 319-351-2324
Fax: 319-351-6951

Phone: 847-697-6080
Fax: 847-697-6088

Phone: 704-875-8852
Fax: 704-875-8856

Phone: 706-548-0699
Fax: 706-354-7824

Phone: 334-279-8007
Fax: 334-277-0637

Phone: 919-832-9776
Fax: 919-832-4513

Phone: 407-786-0210
Fax: 407-786-2702

Phone: 804-897-3330
Fax: 804-897-4440

Phone: 941-722-7094
Fax: 941-722-8044

Phone: 972-618-6777
Fax: 972-618-6555

Phone: 303-805-0790
Fax: 303-805-0734

Phone: 615-826-3387
Fax: 615-826-4529

Phone: 405-755-1773
Fax: 405-755-2060

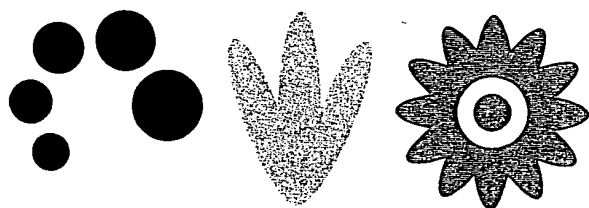
Phone: 870-862-9917
Fax: 870-862-9998

Phone: 254-897-3696
Fax: 254-897-3198

Phone: 830-460-4145
Fax: 830-460-4116

Phone: 435-628-5973
Fax: 435-628-9140

Ball Seed®



RoyalVanZanten

surprising nature

Royal Van Zanten LLC
790 Live Oak Ridge road
P.O.Box 1920
Nipomo, CA 93444

Telephone : 1 (805) 929 2858
Fax : 1 (805) 929 2772
E-Mail : cuttings.usa@royalvanzanten.com

www.royalvanzanten.com

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

THIS PAGE BLANK (USPTO)